# D-30 PROCESS:
## Battle Force Configuration Management and
## Certification

# NAVSEA 53

# Agenda

➡ **Background**

- What Went Wrong

- Today's Operational Problems

- Definition

⬜ **D-30 Process**

- Process

  - Purpose & Scope

  - Overview

  - Certification Objectives

- Software CM Requirements

⬜ **Summary**

# Background
# What Went Wrong?

NAVY Focused on Getting Capability Fielded Quickly

- Schedule Driven - Ignored Engineering "Red Flags"
- Budget Marks and Program Instability

PMs Delivered Systems Not Fully Ready

- Shortcuts in Development and Systems Engineering
- Insufficient Testing Ashore
- Inadequate Training and Logistics
- PM's not Required to Ensure Interoperability (Stovepipes)

*INTEROPERABILITY AND PERFORMANCE FAILURES*

# Background
# Interoperability - Defined

Ability of systems, units, or forces to provide services to and accept services from other  systems, units, or forces and to use the services so exchanged to enable them to operate effectively together and achieve the  assigned missions.  (JCS Pub 1)

# Background
# Today's Operational Problems



Sensor

Link 16

TAOM

SAAWF

B

TAOC

a

RTU

G

B = TADIL B
a = ATDL-1
G = GBDL

Shooter
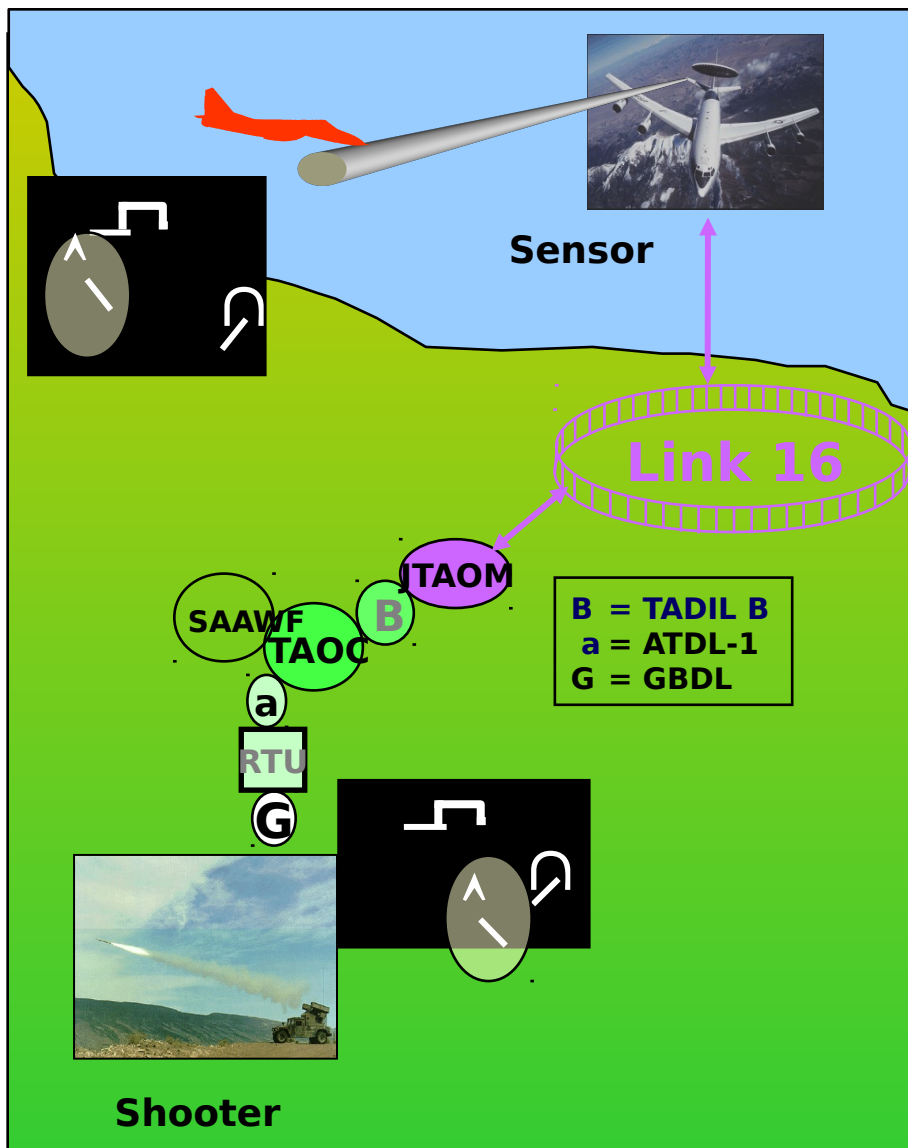
- Erratic tracking

- Dual/multiple track designations

- Misidentification/Track ID conflicts

- IFF/SIF conflicts

- Reporting responsibility (R2) conflicts

- Frequent track number changes and swaps

- Reliance on voice deconfliction

- Operator overload

# D-30 Process:
# Purpose and Scope
## (Ref: CLF/CPF Inst 4720.3A)

**Purpose:**

Increase readiness of deploying battle groups through a disciplined process that includes configuration management, integrated testing and certification.

**Encompasses:**

Command, Control, Communication, Computers, Intelligence, Surveillance and Reconnaissance

**THE CINC'S PROCESS!**

# D-30 Process:
# NAVSEA Certification Objectives

- No system or program (interoperable type, as applicable) will be employed on a ship without having been tested in DEP.

- No delivery or testing of a program will be allowed during COMPTUEX/JTFEX.

- No program will be deployed with a BG that is not in the BG Caps & Lims (if applicable to Caps & Lims).

**ONLY CINCs HAVE AUTHORITY TO GRANT WAIVERS**

# D-30 Process:  Overview

**NAVSEA** — NAVAL SEA SYSTEMS COMMAND

**FLEET CINCS**

Battle Group Composition Established

**D-30**

**INITIAL BASELINE REVIEW**

Initial Baseline Configuration Defined

**D-28**

**PRE-DEPLOYMENT PLANNING CONFERENCE**

Presentation of DRAFT Deployment Baseline

**D-25**

**DEPLOYMENT PLANNING CONFERENCE**

Final Baseline Configuration Promulgated

**D-24**

**BATTLE FORCE INTEGRATION TESTING (BFIT)**

Distributed Engineering Plant Testing

**D-12**

**PRE-TCD CONFERENCE**

Battle Force Briefs Final Configuration

**D-10**

**PRELIMINARY BATTLE GROUP CERTIFICATION**

Baseline Hardware/Software Install/Preliminary Certify

**D-7**

**FINAL BATTLE GROUP CERTIFICATION**

Final Baseline Hardware/Software Certification

**D-1**

**ELECTRONIC CHANGE CONTROL BOARD (eCCB)**

**D-24   to   D-0**

## Battle Group Centric



*Increased Readiness of Deploying Battle Groups Through Disciplined Process*

**\* CINCLANTFLT/CINCPACFLT Instruction 4720.3A (signed 27 APR 00)**

# D-30 Process Overview: Initial Baseline Review (IBR)
## (Ref: CLF/CPF Inst 4720.3A)

 **Purpose**

Formally review the **Proposed Baseline Configuration** and establish the **Initial**

**Baseline Configuration** for a given Battle Force.

➡ **Process**

**IBR** reviews the **Proposed Baseline Configuration** at D-28.  As a result of the review, NAVSEA 53H establishes the **Initial Baseline Configuration**.

The **Initial Baseline Configuration** is transmitted through a message to FLTCINC, information to CNO, theater commanders, TYCOMS, and NFCs which lists all installations that will be accomplished prior to deployment.

 **Membership**

- FLTCINC
- NAVSEA 53
- SPAWAR 05

- NAVAIR 4.0
- MARCORPSYSCOM
- SYSCOMs

- PEOs
- SPMs
- SUPPORT (AS REQUIRED)

# D-30 Process Overview:
# D-25 Pre-Deployment Planning Conf
## *(Ref: CLF/CPF Inst 4720.3A)*

**NAVSEA**
NAVAL SEA SYSTEMS COMMAND

- **Purpose**

Present the **Initial Deployment Baseline Configuration (DRAFT)** for a given Battle Force.

- **Process**

**D-25 Pre-Deployment Planning Conference** presents the **Initial Deployment Baseline Configuration (DRAFT)** to TYCOMs/COMMARFOR, respective NFC, and respective COMPHIBGRU, and BG Commander with FLTCINC participation.  As a result of the review, FLTCINC forwards the Fleet supported **Deployment Baseline Configuration Issues** to the SYSCOMs, PEOs, TYCOMs and OPNAV for action.

- **Membership**

| | | |
|---|---|---|
| - FLTCINC | - Numbered Fleet | - PEOs |
| - NAVSEA 53 | - NAVAIR 4.0 | - SPMs |
| - SPAWAR 05 | - MARCORPSYSCOM | - SUPPORT (AS REQUIRED) |
| - BG Commander | - SYSCOMs | |

# D-30 Process Overview: Baseline Review Board (BRB)
## (Ref: CLF/CPF Inst 4720.3A)

 **Purpose**

Formally review and decide the <u>Final Baseline</u> for a given Battle Force.

 **Process**

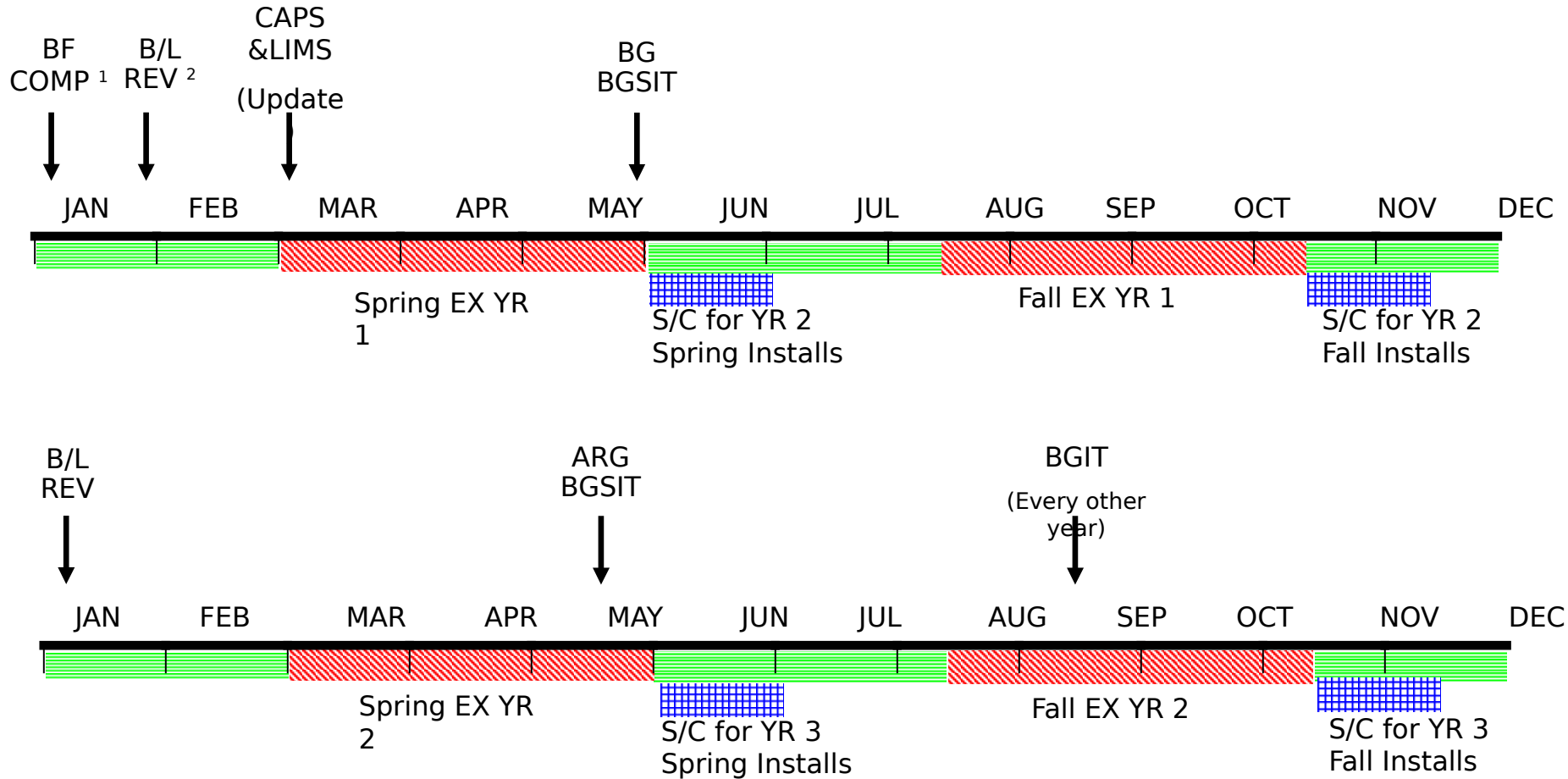The configuration baseline of a given Battle Force evolves from **Proposed** to **Initial** to **Deployment** per D-30 Process.

**BRB** establishes the **<u>Final Baseline</u>** at D-24.  Subsequent changes are controlled by the **BF CCB.**

 **Membership**

- FLTCINC (Chair)
- NAVSEA 53 (Deputy Chair)
- SPAWAR 05

- NAVAIR 4.0
- 2nd/3rd FLEET
- OPNAV N6/N8

- *MARCORPSYSCOM*
- TYCOMs
- SUPPORT (AS REQUIRED)

# FDNF Baseline Process

NAVSEA
NAVAL SEA SYSTEMS COMMAND

BF COMP [1]  B/L REV [2]  CAPS &LIMS (Update  BG BGSIT

JAN  FEB  MAR  APR  MAY  JUN  JUL  AUG  SEP  OCT  NOV  DEC

Spring EX YR 1

S/C for YR 2 Spring Installs

Fall EX YR 1

S/C for YR 2 Fall Installs

B/L REV  ARG BGSIT  BGIT (Every other year)

JAN  FEB  MAR  APR  MAY  JUN  JUL  AUG  SEP  OCT  NOV  DEC

Spring EX YR 2

S/C for YR 3 Spring Installs

Fall EX YR 2

S/C for YR 3 Fall Installs

[1] FLTCINC promulgate FDNF composition change msg as soon as identified in order to bring new platform(s) into B/L configuration control. Assumption: no changes UNODIR.

[2] The Baseline Review will review the proposed baseline and installs for the current and following CYs.

[3] Ref: CLF/CPF Instruction 4720.3A; CPF Msg 251912Z MAY00.

Exercise

Ship Check

Install Period

*Rev 3, 12Sep00*

# The D-X Process

- **Patterned after D-30 for deploying Battle Groups (BG), taking FDNF unique requirements into consideration**

- **CPF/CLF Instruction 4720.3A "Management of Afloat Combat Systems and C4I Installations and Improvements"**

- **CPF Msg 251912Z MAY00 adapts D-30 Process to FDNF**
  - Key D-30 elements are pertinent and vital to FDNF readiness
  - Two year cycle:  planning and execution years
  - Cornerstone in the annual Baseline Review (BR) in JAN (BGSIT, BFIT)

# D-30 People:
# Process Overview

**NAVSEA**
NAVAL SEA SYSTEMS COMMAND

**FLTCINC**

**IN-THEATER/ BF CDR**

**OPNAV/HQ**

**TYCOMs**

**SYSCOMs**

**PMs**

**D-30**

**BF COMPOSITION**

**D-27**

**PROPOSED BASELINE** → **INITIAL BASELINE**

**DEPLOYMENT BASELINE**

**D-24**

**BRB FINAL BASELINE**
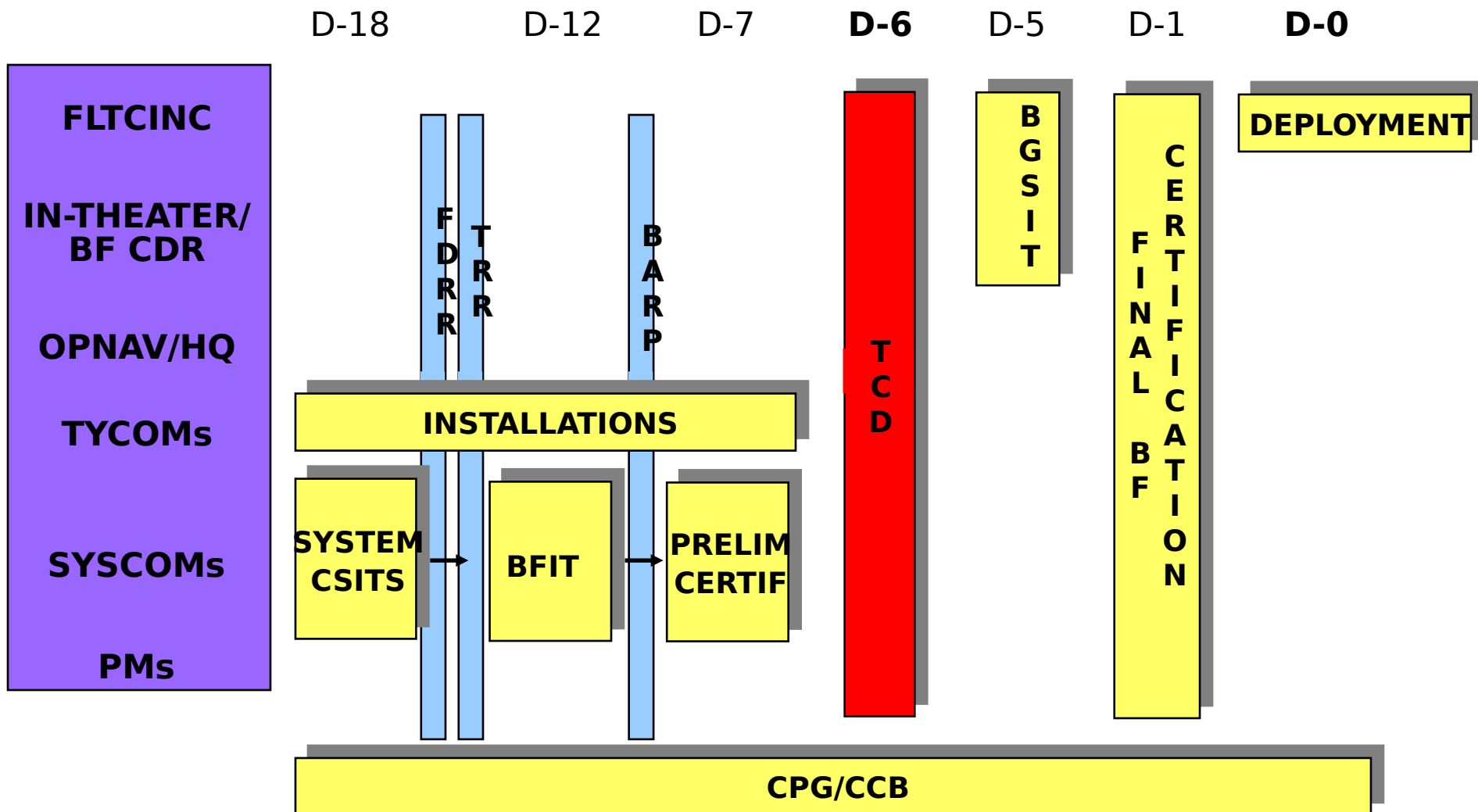
# D-30 Value-Added Summary

- **Joint SYSCOM baseline**
  - Eliminate SYSCOM Walls:  C4ISR/Combat System

- **BF <u>Certification</u> Process**
  - System ⟶ Platform ⟶ Battle Force … Theater
  - Battle Force Ashore (Pre-BGSIT)
  - Independent Certification

- **Disciplined Configuration Control**
  - Formal Baseline Review (BRB)
  - Formal Change Control (CCB)

- **Interoperability Assessment**
  - Functional End-to-End Review
    - Early Problem ID
  - Caps/Lims
  - EMI/BGSIT Mapping/Resolution

## <u>Bottom Line:</u>

• A coordinated process for mapping new systems/functionality
 to each Battle Force

• A coherent certification process

• A necessity for a Network Centric Navy
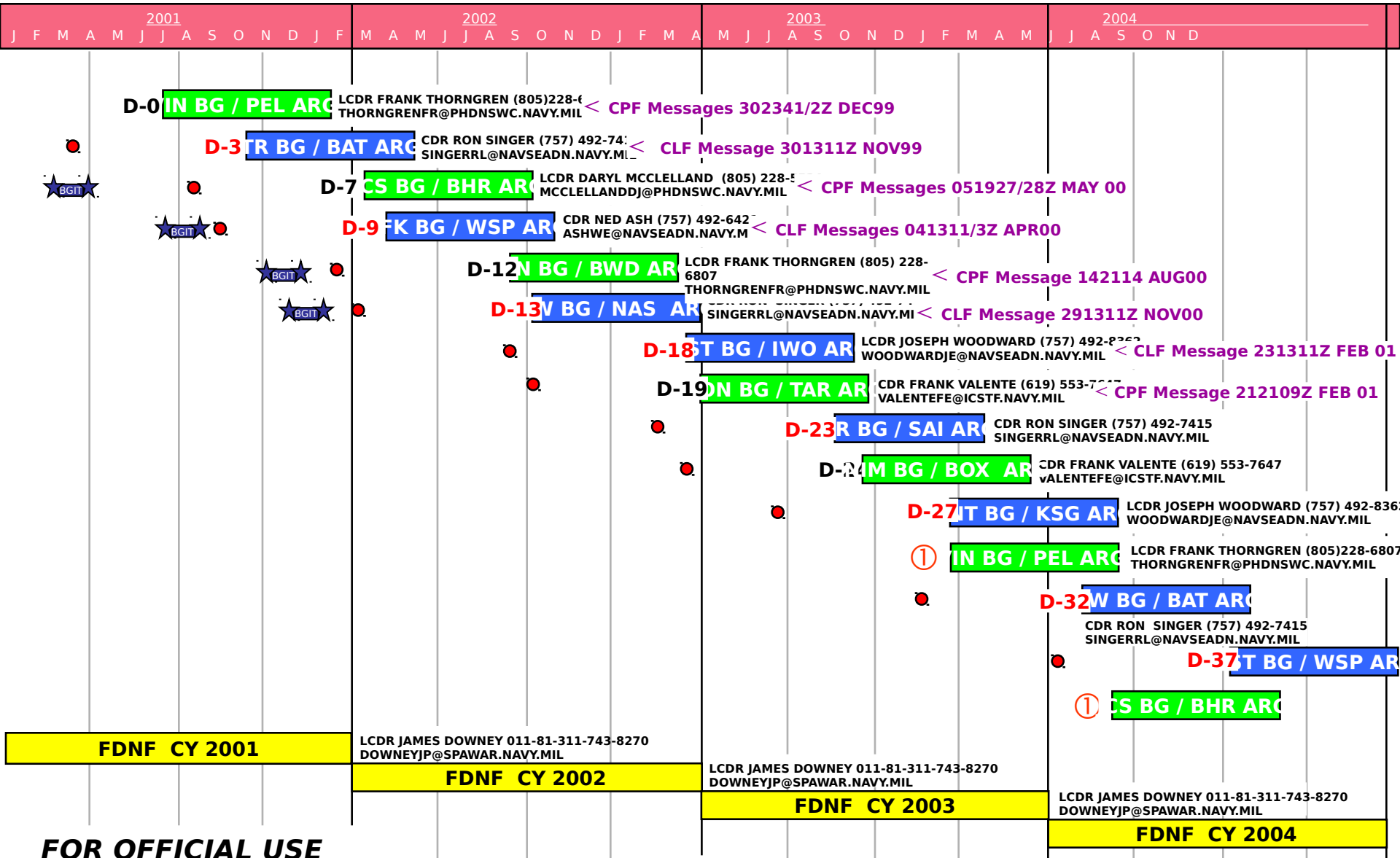
# Proposed BG Deployment Schedule

**NAVSEA** NAVAL SEA SYSTEMS COMMAND

**Month / Year = D-min**

| CLF | CPF | FDNF |
| --- | --- | --- |

⭐ BGIT **Stars denote BGIT Dates**   🔴 **Red Dot denotes established TCD Date**   **Rev: 1 JUN 01**

**2001    2002    2003    2004**

J F M A M J J A S O N D | J F M A M J J A S O N D | J F M A M J J A S O N D | J F M A M J J A S O N D

**D-0** IN BG / PEL ARG — LCDR FRANK THORNGREN (805)228-6807 THORNGRENFR@PHDNSWC.NAVY.MIL  < **CPF Messages 302341/2Z DEC99**

**D-3** TR BG / BAT ARG — CDR RON SINGER (757) 492-7415 SINGERRL@NAVSEADN.NAVY.MIL  < **CLF Message 301311Z NOV99**

**D-7** CS BG / BHR ARG — LCDR DARYL MCCLELLAND (805) 228-5 MCCLELLANDDJ@PHDNSWC.NAVY.MIL  < **CPF Messages 051927/28Z MAY 00**

**D-9** FK BG / WSP ARG — CDR NED ASH (757) 492-642 ASHWE@NAVSEADN.NAVY.M  < **CLF Messages 041311/3Z APR00**

**D-12** N BG / BWD AR — LCDR FRANK THORNGREN (805) 228-6807 THORNGRENFR@PHDNSWC.NAVY.MIL  < **CPF Message 142114 AUG00**

**D-13** V BG / NAS AR — CDR RON SINGER (757) 492-74 SINGERRL@NAVSEADN.NAVY.MI  < **CLF Message 291311Z NOV00**

**D-18** T BG / IWO AR — LCDR JOSEPH WOODWARD (757) 492-8362 WOODWARDJE@NAVSEADN.NAVY.MIL  < **CLF Message 231311Z FEB 01**

**D-19** ON BG / TAR AR — CDR FRANK VALENTE (619) 553-7647 VALENTEFE@ICSTF.NAVY.MIL  < **CPF Message 212109Z FEB 01**

**D-23** R BG / SAI ARG — CDR RON SINGER (757) 492-7415 SINGERRL@NAVSEADN.NAVY.MIL

**D-24** M BG / BOX AR — CDR FRANK VALENTE (619) 553-7647 VALENTEFE@ICSTF.NAVY.MIL

**D-27** T BG / KSG AR — LCDR JOSEPH WOODWARD (757) 492-8362 WOODWARDJE@NAVSEADN.NAVY.MIL

① IN BG / PEL ARG — LCDR FRANK THORNGREN (805)228-6807 THORNGRENFR@PHDNSWC.NAVY.MIL

**D-32** W BG / BAT ARG — CDR RON SINGER (757) 492-7415 SINGERRL@NAVSEADN.NAVY.MIL

**D-37** T BG / WSP AR

① CS BG / BHR ARG

**FDNF CY 2001** — LCDR JAMES DOWNEY 011-81-311-743-8270 DOWNEYJP@SPAWAR.NAVY.MIL

**FDNF CY 2002** — LCDR JAMES DOWNEY 011-81-311-743-8270 DOWNEYJP@SPAWAR.NAVY.MIL

**FDNF CY 2003** — LCDR JAMES DOWNEY 011-81-311-743-8270 DOWNEYJP@SPAWAR.NAVY.MIL

**FDNF CY 2004**

*FOR OFFICIAL USE ONLY*

< **POST BRB BGs UNDER CONFIGURATION CONTROL - eCCB REQUIR**

① **NOTIONAL: BG COMP NOT**

# D-30 Process
# Software CM Requirements

- Provide existing software baseline data
  - Reference point for IBR data calls
  - Reference for determining and assessing possible interoperability issues
  - Reference for C&L assessments at deployment

- Source of audit lists for software validations
  - System, version, media, location, parent equipment

- Means of determining baseline status
  - Completion of planned software installations

# **Summary**

- SEA 53 is responsible for defining BG Baselines and assessing interoperability issues

- Accurate and timely software configuration data is essential to this process

- Hardware configuration data is maintained in a central data repository; however, there is no corresponding software configuration data repository

- Maintaining software CM data in CDMD-OA would facilitate the SEA 53 assessment process